

ARINSHTEYN, E.A.

Structure of a crystal near the melting point. Izv. vys. ucheb.
zav.; fiz. no. 4:173-175 '59. (MIRA 13:3)
(Crystallography)

ARINSHTEYN, E.A.

Structure of solid solutions. Izv. vys. ucheb. zav.; fiz. no.4:175-176
'59. (MIRA 13:3)

1. Tomskiy inzhenerno-stroitel'nyy institut.
(Solutions, Solid)

ARINSHTEYN, E.A.

Theory of second-order phase transitions. *Izv.vys.ucheb.zav.;*
fiz. no.6:176-177 '59. (MIRA 13:6)

1. Tomskiy inzhenerno-stroitel'nyy institut.
(Crystals)

85085

S/139/60/000/004/043/044/XX
E073/E535

5.4110 (1273 only)

AUTHOR: Arinshteyn, E.A.

TITLE: On the Statistical Theory of Phase Transitions

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1960,
No.4, pp.235-236

TEXT: According to the condensation theory of Mayer (Ref.1) for determining the thermodynamic functions, the following series are used

$$G_k(z, b) = \sum_{\ell=1}^{\infty} \ell^k z^{\ell} b_{\ell} \quad (1)$$

where b_{ℓ} - group integrals, $z = \lambda^{-3} \exp\left(\frac{\mu}{kT}\right)$, μ - chemical potential, $\lambda = h(2\pi m)^{-1/2}$. In these notations the pressure p and the specific free energy $F_0 = \lim_{N \rightarrow \infty} \frac{F_N}{N}$ are respectively

$$p = kT G_0(z, b); \quad (2)$$

$$F_0 = kT \left\{ \ln(\lambda^3 z) - G_0(z, b) \right\}. \quad (3)$$

Card 1/2

ARINSHEYN, E.A.

Heat conductivity equation in a movable boundary region. Izv.vys.
ucheb.zav.; fiz. no.4:172-173 '61. (MIRA 14:10)

1. Tomskiy inzhenerno-stroitel'nyy institut.
(Heat--Conduction) (Differential equations)

Deceased 1961

Name: ARINSHTEYN, Matvey Grigor'yevich

Dissertation: Clinic and treatment of infectious
polyarthritis by various physical
methods

Degree: Doc Med Sci

Affiliation: [Not indicated]

Defense Date, Place: 31 May 56, Council of Rostov-on-Don
State Med Inst

Certification Date: 16 Mar 57

Source: BMVO 13/57

PHASE I NON-EXPLOITATION SON/5035 22 February 1959.

Stekloobraznye sostoyaniya: trudy Tret'yego vsesoyuznogo sovetskogo Leningrad, 16-20 noyabrya 1959 (Vitroous State; Transactions of the Third All-Union Conference on the Vitroous State, Held in Leningrad November 16-20, 1959) Moscow, Izd-vo AN SSSR, 1960. 524 p. Errata slip inserted. 3,600 copies printed. (Series: Iss. Trudy)

Sponsoring Agencies: Institut khimii siltatov Akademii nauk SSSR. Vsesoyuznoye khimicheskoye obshchestvo imeni D.I. Mendeleeva and Gosudarstvennyy ordena Lenina opticheskii institut imeni S.I. Vavilova.

Editorial Board: A.I. Avgustinik, V.P. Barrikovski, M.A. Beshorodov, O.K. Botvinkin,
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Molchanov, R.I. Muller, Ye.A. Poryv-Kobits, Chairman, M.A. Toropov, V.A.
Florinskaya, A.N. Yakhkind; Ed. of Publishing House: I.N. Suvorov, Tech. Ed.:
V.T. Rochever.

PURPOSE: This book is intended for researchers in the science and technology of classes.

CONCLUSIONS. The book contains the reports and discussions of the Third All-Union Conference on the Vitreous State, held in Leningrad from November 16-29, 1959. They deal with the methods and results of studying the structure of glasses, the relation between the structure and properties of glasses, the nature of the chemical bond and glass structure, amorphous polymers and glass structure, and silice, mechanisms of vitrification of glasses are also discussed. A number of the points dealing with dependence of glass properties on composition, the tinting of glasses of glasses, and mechanical, technical, and chemical properties of glasses. The Conference was attended by more than 300 delegates from Soviet and East German scientific organizations. Among the participants in the discussion were R.P. Solodov, Ye. V. Kuvshinskiy, Yu.A. Gasev, Y.F. Pryamishnikov, Yu. Ya. Govilb, O.P. Melchakov-Petrovsky, G.P. Mikhaylov, S.M. Petrov, A.S. Lazarev, G.I. Lyudskanov, A.V. Shatilov, N.P. Plonchinskaya, A.Ye. Kunenkov, E.V. Degtyareva, G.A. Byugunova-Kayeva, A.A. Kalenkov, M.K. Skornyskaya, P.B. Rodin, E.K. Kabanov, A. Kunenkov, V.P. Podzeyev, R.S. Shuevalovich, Z.G. Plazner, and O.E. Kuchukova. The final version of the Conference was addressed by Professor T.Y. Khlyuzovskiy, Renowned Scientist and Engineer, Doctor of Technical Sciences. The following institutes were cited for their contribution to the development of glass science and technology: Gosudarstvennyy opticheskii institut (State Optical Institute), Institut khimii silikatov AN SSSR (Institute of Silicate Chemistry) (AS USSR), Fizicheskiy institut AN SSSR (Physics Institute AS USSR), Khimiko-tehnologicheskii institut AN SSSR (Physicochemical Institute AS USSR), Institut fiziki AN SSSR, Minsk (Institute of Physics, Academy of Sciences, Belarussian SSR, Minsk), Laboratoriya of Physical Chemistry of Silicates of the Institut obshchey i neorganicheskoy khimii AN SSSR (Laboratory of General and Inorganic Chemistry, Academy of Sciences, Belarussian SSR, Minsk), Institut vysokomolekulyarnykh soedyneniy AN SSSR (Institute of High Molecular Compounds, AS USSR), Gosudarstvennoy institut stekla (State Institute for Glass), Gosudarstvennyy institut tekhnicheskogo stekla (State Institute for Electrical Glass), Sibirskiy fiziko-khimicheskoy institut, Tomsk (Siberian Physicochemical Institute, Siberian Technological Institute), Tomsk (Siberian Physicochemical Institute, Tomsk), Leningradskiy gosudarstvennyy universitet (Leningrad State University), Moskovskiy khimiko-tekhnologicheskii institut (Moscow Institute of Chemical Technology), Leningradskiy tekhnologicheskii institut in Lenoventa (Leningrad Technological Institute in Lenovovent), Belorusskiy politekhnicheskii institut Minsk (Belorussian Polytechnic Institute, Minsk), Kovoverzhatskiy politekhnicheskii institut (Novosibirsk Polytechnic Institute), and Sverdlovskiy politekhnicheskii institut (Sverdlovsk Polytechnic Institute). The Conference was sponsored by the Institute of Silicate Chemistry AS USSR (Acting Director - A.S. Govilb), the Vsesoyuznoye khimicheskoye obshchestvo-IYA, D.D. Mendeleeva (All-Union Chemical Society in honor of D.I. Mendeleev), and the Gosudarstvennyy ordena Lenina opicheskii institut (State Optical Institute named after Lenin). The resolutions of the Conference include recommendations to organize a Center for the purpose of coordinating the research in glasses, to publish a new periodical under the title "Fizika i khimiya stekla" (Physics and Chemistry of Glasses), and to join the Institute of Physics and Chairman of the Organization of Comrades; Ye.A. Lebedev, Academician, Doctor of Physics and Mathematics, Member of the Academies of Sciences of the USSR and G.D.R., and Chairman of the Scientific Committee; I.N. Golitskiy and B.L. Myuller, Doctor of Chemical Sciences, Member of the Organizational Committee. The editorial board thanks G.M. Burdakov, B.V. Volkovskiy, L.I. Dekkina, D.P. Dobychin, S.K. Dubrov, V.A. Ioffe, and B.T. Kolmanetsky. References accompany individual reports.

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Card 14/23	

1. 171-172 171-172 171-172 171-172

ACCESSION NR: AP5003044

S/0051/65/018/001/0171/0172

AUTHOR: Melik-Gaykazyan, I. Y. V. M. V. M.

TITLE: Destruction of F-centers by x-rays in pure and activated KCl crystals

SOURCE: Optika i spektroskopiya, v. 16., no. 1, 1967, 171-172

TOPIC TAGS: F-center, x-irradiation, alkali-halide crystal, activated crystal

ABSTRACT: The authors have attempted to trace the destruction of F-centers as the hardness of the bombarding x-rays is increased. Methods used in earlier investigations did not make it possible to compare the kinetics of F-center destruction by x-rays in different crystals. Experiments were made with thermally pure KCl crystals and with crystals activated by x-rays. The results are presented in figures 1-4.

ASSOCIATION: None

Card 1/2

22390-65

ACCESSION NR: AP5003044

SUBMITTED: 19Mar64

ENCL: 00

SUB CODE: OP

NR REF SOV: 009

OTHER: 003

Card 2/2

S/058/61/000/010/065/100
A001/A101

AUTHOR: Arinshteyn, M.M.

TITLE: Calculation of electrical field in specimens of special shape with allowance for non-linear effects

PERIODICAL: Referativnyy zhurnal. Fizika, no. 10, 1961, 225, abstract 10D63 (V sb. "Stekloobrazn. sostoyaniye", Moscow-Leningrad, AN SSSR, 1960, 257 - 260, Discuss., 303 - 304)

TEXT: The author investigated theoretically distribution of electrical field in a glass specimen shaped as a plane-parallel plate with a drilled hole having the form of a spherical segment.

[Abstracter's note: Complete translation]

Card 1/1

771115 1112 1112 1112
ARINSHTYIN, M.Ye.

Changes in blood coagulation in coronary atherosclerosis. Terap.
arkh' 29 no.11:23-27 N '57. (MIRA 11:2)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. T.S.Istamanova)
I Leningradskogo meditsinskogo instituta imeni I.P.Pavlova.
(CORONARY DISEASE, blood in,
arteriosclerosis, coagulation changes (Rus))
(BLOOD COAGULATION, in var. dis.
coronary arteriosclerosis (Rus))

ARINSKAYA, N. A.

ARINSKAYA, N. A. --"Electrolytic Separation of Small Quantities of Al from Al_2O_3 in Steel, with Subsequent Colorimetric Determination of Aluminum."
*(Dissertations for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Min of Higher Education, Novochoerkassk Polytechnic Inst imeni Sergo Ordzhonikidze, Novochoerkassk 1955
SO: Knizhnaya Letopis', No. 25, 18 Jun 55

* For Degree of Candidate in Chemical Sciences

ARINUSHEV, I.V.; ABRAMOVICH, B.Ya.; GOLUBEV, A.Ya.

Ethyl mercuric phosphate for the control of slime formation. *Bum.prom.*
29 no.4:19-21 Ap '54. (MLRA 7:6)

1. Balakhninskiy tsellyulozno-bumazhnyy kombinat.
(Paper industry)

ARINUSHEV, I. V.

Improving the quality of newsprint. I. V. Arinushchev and B. Ya. Abramovich (Pulp-Paper Mill, Balakhna). *Bumash. Prom.* 30, No. 11, 17-22 (1955).—The steps taken to improve machine efficiency and newsprint quality in the Balakhna newsprint mill are described. In a study of the relation between paper quality and pulp characteristics, standard handsheets were prep'd. contg. various amts. of sulfite (17° Schopper-Riegler (S.R.), Björkman No. 93). The amt. (in %) of very coarse, coarse, medium, and fine fractions in groundwood A (79° S.R.) were 80.3, 8.9, 14.5, and 46.4, and in groundwood B (35° S.R.) were 79.2, 3.4, 4.0, and 14.4, resp. For groundwood A at 100, 90, 85, 80, 75, 70, 65, 60, 55, 50, 40, 30, 20, 10, and 0°, sheet d. in g./cc. was 0.285, 0.29, 0.30, 0.31, 0.32, 0.33, 0.33, 0.34, 0.35, 0.37, 0.37, 0.37, 0.39, 0.41, and 0.41; breaking length in m. 2629, 2640, 2791, 2970, 3007, 3053, 3100, 3301, 3301, 3457, 3453, 3503, 3625, 3789, and 3703; and double folds 0.8, 1.0, 1.3, 1.7, 2.2, 2.3, 4.0, 5.1, 6.9, 7.1, 7.6, 12.8, 15.4, 17.9, and 24.3; for groundwood B at the same temps. sheet d. in g./cc. was 0.225, 0.23, 0.24, 0.24, 0.245, 0.25, 0.26, 0.27, 0.28, 0.29, 0.30, 0.35, 0.36, 0.40, and 0.41; breaking length in m. 1250, 1380, 1516, 1516, 1713, 1815, 2100, 2280, 2430, 2461, 2537, 3428, 3440, 3677, and 3703; and double folds 0.6, 0.8, 1.3, 2.1, 2.2, 2.6, 3.0, 3.3, 3.2, 4.2, 5.7, 6.4, 9.3, 14.0, and 24.3, resp. Operating details are given for 4 of the Balakhnin paper machines (approx. 350 m./min. speed), including relative positions of slice, breast roll and forming board, vacuum-box air separator, and couch and press section.

John Lake Keays

MT

①

ARINUSHEV, I.V., inzh.

Honorary duty of each digesterman. Bum.prom. 36 no.5:20 My '61.
(MIRA 14+5)

(Woodpulp)

ARINUSHEV, J.

Our experience with improvement of the quality of newsprint. Tr. from the Russian. p. 54.

PAPIR A CELULOSA, Prague, Vol. 11, no. 3, Mar. 1956.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6 June 1956, Unc1.

3/147/61/000/004/007/021
E194/E435

26.1110
AUTHORS: Arinushkin, L.S., Dumov, V.I. (Moscow)
TITLE: Basic design of hydraulic drives for turbo prop
airscrews

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. . .
Aviatsionnaya tekhnika, no.4, 1961, 45-57

TEXT: Correct design of hydraulic drives for variable pitch
airscrews is a pressing problem. These drives, together with
centrifugal governors, maintain optimum engine speed and can also
turn the blades to reverse thrust or to feather the airscrews.
Their design is mainly empirical, particularly as regards their
dynamic properties and this retards development of new designs.
This article deals with calculation of the main parameters and
dimensions of drive parts with sufficient accuracy for practical
purposes. The operating principles of variable pitch airscrew
mechanisms are described. A basic equation of airscrew blade
rotation is given and expressions are derived for the various
torques that enter into this equation; it is shown that the total
torque is practically independent of the blade angle. On the
Card 1/3

Basic design of hydraulic drives ...

S/147/61/000/004/007/021
E194/E435

basis of this, a formula can be derived for the angular speed of rotation of the airscrew blade for any operating conditions of the drive. Experience has shown that, under automatic control conditions, the blade angle should change at least at a rate of 8° per second and when reversing thrust at 45° per second. These values are used in selecting optimum drive parameters. Under automatic conditions the blades are rotated only by the blade counterweight torque, but as the blade torque increases with pitch the counterweight torque must be determined at maximum pitch. Moreover, main engine speed must be maintained within 50 rpm corresponding to a blade setting change of 1° in 0.12 seconds. On the basis of these considerations the mechanism power is found and for a given oil pressure the optimum piston area is determined. To avoid instability, some resistance is required in the oil feed duct and the calculation of this is next explained. Operation under thrust reversing conditions is then checked and, finally, the pump output is calculated. The calculated values are in good agreement with test results. The procedure can be applied to

Card 2/3

Basic design of hydraulic drives ... S/147/61/000/004/007/021
E194/E435

existing designs to calculate the rate of blade setting. There
are 5 figures.

SUBMITTED: December 6, 1960

Card 3/3

ARINUSHKIN, L.S.; DUMOV, V.I.; VAYNBAUM, I.F.

Results of experimental investigations of centrifugal-type
hydrodynamic sealings. Izv.vys.ucheb.zav.; av.tekh. 5 no.3:
131-142 '62. (MIRA 15:9)

(Sealing (Technology))

CIA-RDP86-00513R00010201

[illegible]

• 324

CIA-RDP86-00513R000102010

ACCESSION NR: AP5016779

Card 2/3

L 10779-66 EWT(d)/FSS-2/EWT(1)/EWP(f)/EWP(c)/T/FCS(k)/ETC(m) WVV

ACC NR: AP6001007

SOURCE CODE: UR/0286/65/000/022/0078/0078

INVENTOR: Arinushkin, L. S.; Polinovskiy, A. Yu.; Nosotsev, I. M.

ORG: none

TITLE: Locking device for moving parts of mechanisms. Class 47, No. 176472

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 78

TOPIC TAGS: valve, valve design, liquid rocket engine

ABSTRACT: This Author Certificate introduces a locking device for moving parts of mechanisms, such as liquid-rocket engine valves, containing a rod with a sealing cone controlled by a pneumatic device (see Fig. 1). To ensure two-way action of the

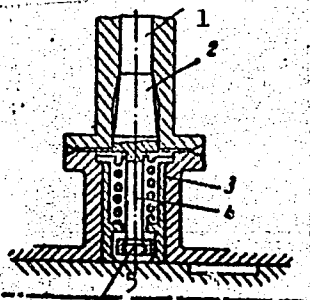


Fig. 1. Locking device for moving parts

- 1 - Rod controlled by a pneumatic cylinder;
- 2 - sealing cone; 3 - spring-loaded bushing;
- 4 - thin rod; 5 - head.

Card

1/2

UDC: 621.646.983

L 10779-66

ACC NR: AP6001007

device, it is equipped with a spring-loaded bushing, which is coupled concentrically with the stem of a rod. This stem is made in the form of a thin rod with a head which disengages for the repeat action. Orig. art. has: 1 figure. [TN]

SUB CODE: 21/ SUBM DATE: 29Oct64/ ATD PRESS: 4168

CC
Cord 2/2

L 21411-66 EWT(m)/EWP(w)/EWP(v)/T/EWP(k)/ETC(m)-6 WM/EM/DJ

ACC NR: AP6009927

SOURCE CODE: UR/0413/66/000/004/0119/0120

INVENTOR: Arinushkin, L. S.; Abramovich, R. B.; Vaynbaum, I. F.; Dumov, V. I.;
Mikhaylov, Yu. N.; Fedorov, V. A.; Fayzutdinov, N. Z.; Yanyshin, V. V. 60
58

ORG: none

TITLE: Aviation turbogenerator. Class 46, No. 179131

SOURCE: Izobreteniya, promyshlennyye obraztsey, tovarnyye znaki, no. 4, 1966,
119-120

TOPIC TAGS: turbogenerator, gas turbine 44.55

ABSTRACT: The proposed turbogenerator contains a gas turbine, an electric generator,

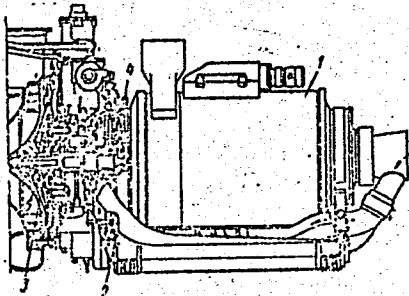


Fig. 1. Turbogenerator

1 - Electrogenerator; 2 - oil heat
exchanger; 3 - fan; 4 - auxiliary fan;
5 - turbine disk.

Card 1/2

UDC: 621.313.322-81:629.13

L 21411-66

ACC NR: AP6009927

11 11, 11, 11 4
1 a speed regulator for the rotor, an oil system to lubricate and cool the rotor bearings, as well as an air cooling system with a centrifugal fan. To increase the service life of the turbogenerator, the oil system contains a heat exchanger through which cooling air is blown by an auxiliary centrifugal fan mounted on the turbine shaft. In variation of this turbogenerator, the air-cooling fan blades are located on the rear side of the turbine disk. The disk and blades are made in one piece (see Fig. 1). Orig. art. has: 1 figure. [TN]

SUB CODE: 21/ SUBM DATE: 27Aug63/ ATD PRESS: 4221

Card 2/2

L 38151-66 EWT(1)/EWT(m)/I DJ/WE

ACC NR: AP6025680

SOURCE CODE: UR/0413/66/000/013/0147/0147

INVENTOR: Arinushkin, L. S.; Dumov, V. I.; Zaslavskiy, G. M.; Mayzenberg, S. I.

ORG: none

TITLE: Fuel system. Class 62, No. 183606

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 147

TOPIC TAGS: fuel control, engine fuel pump, aircraft fuel pump, aircraft fuel system, engine fuel system

ABSTRACT: An Author Certificate has been issued for an aircraft-engine fuel system containing a fuel-regulating device and fuel tanks in which are installed hydraulic

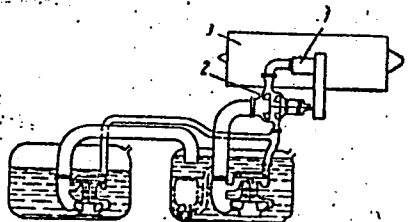


Fig. 1. Fuel system

- 1 - Fuel-regulating device;
- 2 - two-stage booster pump;
- 3 - engine.

Card 1/2

UDC: 629.13.01/06

L-38151-66

ACC NR: AP6025680

2

turbine pumps for boosting and transferring fuel (see Fig. 1). The pumps' turbine intake is connected to the pump leading to the engine, and the turbine output is connected to the main pressure line of the booster and transfer pumps. To increase the system's capacity and efficiency at a high fuel-delivery rate, ahead of the fuel-regulating device is installed a two-stage pump which is driven by the engine. Orig. art. has: 1 figure. [KT]

SUB CODE: 01/ SUBM DATE: 27Nov64/ ATD PRESS: 5045

21/

Card 2/2 MLP

ACC NR: AP6035929

(A)

SOURCE CODE: UR/0413/66/000/020/0194/0195

INVENTOR: Arinushkin, L. S.; Polinovskiy, A. Yu.; Glozman, Ye. A.; Drozdov, N. G.;
Lopukhov, K. K.

ORG: none

TITLE: Centrifugal pump unit. Class 59, No. 187528

SOURCE: Izobreteniya, promyshlennyye obraztzy, tovarnyye znaki, no. 20, 1966,
194-195

TOPIC TAGS: pump, centrifugal pump, engine fuel pump, aircraft fuel pump

ABSTRACT: An Author Certificate has been issued for a centrifugal pump unit for an
aircraft fuel system, which consists of a housing (stator), oscillating assembly
(rotor) mounted on a shaft, and an electric motor. To reduce the danger of fire
and explosion, the pump's rotating and stationary parts are connected electrically.
[WA-98]

SUB CODE: 01, 13/ SUBM DATE: 27Apr64

Card 1/1

UDC: 621.67

ACC NR: AP6035936

SOURCE CODE: UR/0413/66/000/020/0197/0197

INVENTOR: Arinushkin, L. S.; Dumov, V. I.; Zaslavskiy, G. M.; Pomerantsev, V. F.

ORG: none

TITLE: Aircraft power-supply system. Class 62, No. 187535

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 197

TOPIC TAGS: ~~power supply~~, aircraft power equipment, electric power engineering, electric power source, *aircraft fuel system, mechanical power transmission device, electric generator*

ABSTRACT: An Author Certificate has been issued for an aircraft power-supply system consisting of a generator connected to the engine's gear box through an intermediate transmission equipped with an rpm-sustaining governor. In order to increase efficiency, reliability, and decrease the system's weight, the intermediate-transmission contains a hydrodynamic torque converter, which is supplied with working fluid from the aircraft's fuel system. Orig. art. has: 1 figure. [WA-98]

SUB CODE: 01, 09/ SUBM DATE: 16Jan65

UR/0413-66-01/06

ACC-NR: AP7001460

(A)

SOURCE CODE: UR/0413/66/000/021/0211/0212

INVENTOR: Arinushkin, L. S.; Dumov, V. I.; Luchkin, S. M.; Polinovskiy, A. Yu.; Sharov, Yu. A.

ORG: none

TITLE: Self-priming centrifugal-pump assembly. Class 59, No. 188308

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 211-212

TOPIC TAGS: aircraft fuel pump, axial pump, fluid pump, centrifugal pump, engine fuel pump

ABSTRACT: This Author Certificate introduces a self-priming centrifuge pump for fuel systems such as those used in aircraft. A common casing contains a main centrifugal pump and an auxiliary fluid-flow ring pump. The discharge cavity of the latter connects with the fuel tank. The intake chamber of the fluid-flow ring pump is connected to the forechamber of the main pump rotor by means of a channel which encircles, for instance, the hub of the main rotor, and another channel in the casting connects the functional chamber of the ring pump to the discharge cavity of the main pump. This arrangement improves the anticavitation properties of the

Card 1/2

UDC: 621.67-112

ACC NR: AP7001460

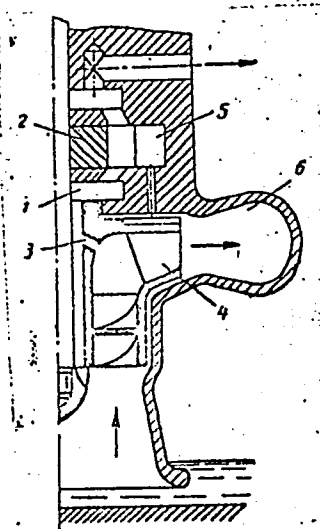


Fig. 1. Self-priming centrifugal pump

1 - Intake chamber; 2 - rotor; 3 - channel; 4 - rotor hub; 5 - functional chamber; 6 - discharge cavity of the main pump.

assembly and results in more dependable operation. In another version of the above assembly the main pump includes an engaged axial rotor, and in this case the intake of the ring pump is also connected to the forechamber of the axial rotor (see Fig. 1). Orig. art. has: 1 figure. [SA]

SUB CODE: 13, 01/ SUBM DATE: 30Dec62/ ATD PRESS: 5110

Card 2/2

ACC NR: AP6035928

SOURCE CODE: UR/0413/66/000/020/0194/G194

AUTHOR: Arinushkin, L. S., Dumov, V. I./ Knyshev, V. A. / Moskovskiy, V. D./ Polinovskiy, A. Yu./ Sharov, Yu. A.

ORG: none

TITLE: Pump unit for two-circuit fuel systems for power plants

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no.20, 1966, 194

TOPIC TAGS: pump, ^{engine} fuel system, ~~two circuit fuel system~~, fuel feed system, ^{engine fuel pump}

ABSTRACT: The proposed pump unit consists of a pump with a low pressure circuit and a pump with a high pressure circuit. To improve its efficiency and to decrease the system's size and weight, the impellers of both pumps are mounted on a common shaft and an annular collector is positioned between the impellers; the collector is connected by ducts to the low pressure pump outlet duct and to the high pressure pump inlet cavity. In order to improve the anticavitional characteristics of the unit, a variation of this unit is made so that the fuel by-pass from the high pressure circuit runs through a duct which is positioned tangentially to an annular chamber located at the unit inlet. (see Fig.1).

Card 1/2

ACC NR: AP6035928

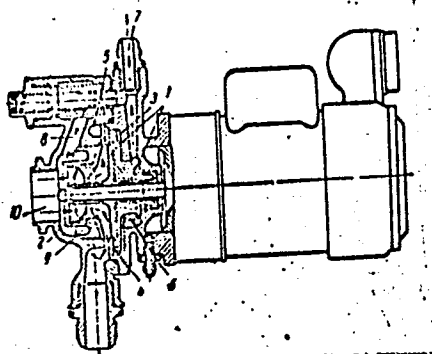


Fig. 1. Pump unit

1- Impeller; 2- drive shaft; 3- annular collector; 4- ducts; 5- low pressure pump outlet duct; 6- high pressure pump inlet cavity; 7- high pressure circuit; 8- tangentially positioned duct; 9- annular chamber; 10- unit inlet

[WA-88]

Orig. art. has: 1 figure.

SUB CODE: 21/ SUBM DATE: 05Oct63/

Card 2/2

ACC NR: AP7005697 (A) SOURCE CODE: UR/0413/67/000/002/0187/0188
INVENTOR: Abramovich, R. B.; Arinushkin, L. S.; Gorbunov, V. S.; Ivanov, Yu. P.;
Yasinskiy, S. Ya.
ORG: None
TITLE: An electrically driven pump assembly for flushing systems such as those used
in the washrooms on passenger aircraft. Class 62, No. 152798
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 187-188
TOPIC TAGS: sanitary equipment, auxiliary aircraft equipment, water pump
ABSTRACT: This Author's Certificate introduces: 1. An electrically driven pump
assembly for flushing systems such as those used in the washrooms on passenger air-
craft. The installation consists of an electric motor and a pump. Operational relia-
bility is improved by keeping corrosive sewage away from the motor. The motor is lo-
cated at a distance from the pump on a rigid hollow column above the flush tank. The
motor is connected to the pump through an intermediate drive located in the standing
column. This drive consists of two shafts pinned together and connected by splines
to the motor and the pump. 2. A modification of this assembly in which the column is
equipped with an overflow tube connected to the tank for maintaining the proper level
of flushing liquid in the column.
SUB CODE: 13/01/ SUBM DATE: 25Feb62

Card 1/1

L 11111-63

BDS/EWT(1)/T-2/ES(r)---AEDC/SSD---Pe-4

64

ACCESSION NR: AP3000872

S/0286/63/000/002/0055/0065

AUTHOR: Arinushkin, L. S.; Abramovich, R. B.; Dumov, V. I.; Yevstaf'yev,
A. V.; Zhukov, Ye. I.; Zaslavskiy, G. M.; Konstantinov, V. Ye.

TITLE: Turbopump unit for tanker aircraft with dual-regime control. Class 62,
No. 137770 3

SOURCE: Byul. izobreteniy i tovarny*kh znakov, no. 2, 1963, 65

TOPIC TAGS: in-flight refueling, turbopump unit

ABSTRACT: A turbopump unit¹⁰ for tanker aircraft with a dual-regime control for refueling modern aircraft in flight is described. The unit consists of an air turbine, main fuel pump, booster pump, dual-regime fuel-pressure regulator, and control system. To ensure pump operation under a low inlet head, increased capacity and delivery pressure, and two pressure regimes, the main fuel pump is driven by an air turbine or by a booster pump driven by a hydraulic turbine installed in the main fuel-supply line. The fuel-pressure regulator is equipped with a programming device, and the pneumatic control system provides automatic cutoff of the air turbine in case of emergency.

ASSOCIATION: none

Card 1/2/

AKINUSHKINA, Ye. V.

15

BTR

8929 *Valovoi Khimicheskii Analiz Pochvy i Gruntov. (Complete Chemical Analysis of Ground and Soils.)* E. V. Arinushkina. 178 pages. 1949. Moscow University, Moscow, USSR. (SSR) Ar44v

Basic methods for investigating the chemical properties of soils and grounds, giving special conditions for each determination in detail. Intended as a manual for university students studying soil agronomy and agriculture and as a handbook on chemical analysis of soils.

See also:

- 8267** (radioactivity measurements on minerals)
- 8433** (analysis of Mg-alloy castings)
- 9038** (determination of cyanides and metallic ions)
- 9193** (infrared spectroscopy of lubricants)
- 9316** (chromatography of organic acids)
- 9317** (electrochromatography apparatus)
- 9369** (reduction at the dropping-mercury electrode)
- 9402** (oscillography of diffusion systems)
- 9430** (analysis for linoleate in natural oils)
- 9434** (semimicro hydrogenation apparatus)
- 9440** (analysis of organoselenium compounds)

CA ARINUSHKINA, Ye.V.

Determination of total nitrogen in small soil samples.
E. V. Arinushkina and T. P. Boltenko (Kafedra Pochvo-
vedeniya). *Vestnik Moskov. Univ.* 5, No. 3, Ser. Fiz.-
Mat. i Estest. Nauk, No. 2, 117-24(1950).—The method,
using a semimicro Kjeldahl app., with sample size of 0.3-1.0
g. is described. The decompn. is done with CuSO_4 , K_2SO_4 ,
 H_2SO_4 mixt. in presence of a trace of Se. Results on numer-
ous samples check within 0.005-0.01%. G. M. K.

ARINUSHKINA, E. V.

Determination of zinc in soil by the dithizone method.
E. V. Arinushkina and A. I. Makarova. *Vestnik Moskov. Univ.* 8, No. 5, Ser. Fiz.-Mat. i Estestven. Nauk No. 3, 115-20 (1953).—Zn is detd. in soil by extn. with 0.003% dithizone in CCl_4 . Soil is first fused with 6 parts of "carbonates" and sesquioxides are pptd. by the acetate method. Two or three preliminary extns. in dil. HCl , with 5 ml. dithizone soln., remove impurities (especially Cu). For final extn. of Zn, 17% $\text{Na}_2\text{S}_2\text{O}_3$ is present to mask Pb, Co, etc. The soln. is made alk. to methyl orange with 5% Na acetate (0.2 ml. excess) to give a pH of 4.5. Ten to 20 ml. of soln. (representing 0.5–1.0 g. of soil) is extd. 1 min. each with 5 ml. and 2 ml. of dithizone soln. Five ml. 1:200 NH_4OH is added to remove excess dithizone. Comparison (apparently visual or by colorimeter only) is made with standards representing 1–10 γ Zn per ml. For water-sol. Zn, 50 g. soil is extd. with 5 parts purified twice-distd. H_2O for 1 hr. Dried residue is decompd. with H_2O_2 and dissolved in dil. HCl . The soln. is extd. as above. Sensitivity is said to be 0.1 γ Zn per ml. CCl_4 is purified both by distn. and by extn. with oil. NH_4OH and dil. HCl . Distd. H_2O is purified by extn. with dithizone soln. Results agree with previous work of Vinogradov. A. W. Daly

ARINUSHKINA, Ye. V.

FD-2173

USSR/Geophysics - Soil

Card 1/1 Pub. 129-13/20

Author : Arinushkina, Ye V., and Boltenko, T. P.

Title : Accelerated method for the determination of the total content of silica in soil

Periodical : Vest, Mosk. un., Ser. fizikomat. i yest. nauk, 10, No 2, 105-113, Mar 1955

Abstract : The authors describe a method of determining the total content of silica ($\text{SiO}_2 \cdot n\text{H}_2\text{O}$) by the gelatine method which requires 5-6 times less time than by the classical hydroelectric method. They recommend the gelatine method in soil investigations. Thirteen references, USSR.

Institution : Chair of Soil Science

Submitted : June 3, 1954

ARINUSHKINA, Yevdokiya Vasil'yevna; ANTIPOV-KARATAYEV, I.N., akademik, otv. red.; POMALEN'KAYA, O.T., red.; YERMAKOV, M.S., tekhn. red.

[Manual on the chemical analysis of soils] Rukovodstvo po khimicheskomu analizu pochv. Moskva, Izd-vo Mosk. univ., 1961. 490 p.
(MIRA 14:7)

1. Akademiya nauk Tadzhikskoy SSR (for Antipov-Karatayev)
(Soils--Analysis)

ARION, GEORGE

Entomologia agricola (Ed. 1)

Bucuresti, Rumania - Editura Agro-Silvica de Stat, 1958. 777 p.

Monthly list of East European Accessions (EEAI) LC Vol 8, No 6, June 1959
Uncl.

ARION, R.

Ion Cantacuzino, originator of the development of the preparation of serums and vaccines for human use in Rumania and recent progress in the production of biological products. Arch. roum. path. exp. microbiol. 22 no. 4:849-864 S-D'63

1. Directeur adjoint scientifique de l'Institut "Dr.I. Cantacuzino".
Bucarest.

POZSGI, N.; CIPLEA, Al. Gh.; BONA, C.; ANDRESCO-TIGOIU, Viorica; CAFFE, Ileana; ARION, R.; *Assistente medicale*: IUGA, Georgeta

Contribution to the study of the chondriome in experimental infection with *B. pertussis*. Arch. roum. path. exp. microbiol. 23 no.3:591-596 S'63

1. Travail de l'Institut "Dr. I. Cantacuzino", Bucarest.

MESROBEANU, I.; ARION, R.; WISNER, B.

Experience of the "Dr. I. Cantacuzino"; Service de la Polio-
myelite. Arch. roum. path. exp. microbiol. 23 no. 3: 713-718 S'63

1. Travail de l'Institut "Dr. I. Cantacuzino"; Service de la Polio-
myelite, Bucarest.

FENYVES, A.; ARION, R.; TANASESCO, Ana, assistante medicale.

Effect of high concentration of Mg^{++} on the thermal stability of attenuated poliovirus strains and SV40 virus. Arch. roum. path. exp. microbiol. 23 no.3:725-730 S'63

1. Travail de l'Institut "Dr. I. Cantacuzino"; Service de la Poliomyelite, Bucarest.

BREZEANU, Gh.; ARION-PRUNESCU, Elena

Hydrochemical studies on the Bratul Sfintu Gheorghe and the reciprocal influence between this and the Danube Delta. Hidrologia 4:199-213 '63.

ARIPDZHANOV, A.A., kand.med.nauk

Treatment of hypertension with gendon and redergam. Med. zhur. Uzb.
no.10:29-32 0 '60. (MIRA 13:12)

1. Iz gosital'noy terapevticheskoy kliniki lechebnogo fakul'teta
(zav. - prof. Z.I. Umidova) Tashkentskogo gosudarstvennogo meditsin-
skogo instituta.
(HYPERTENSION) (RAUWOLFIA) (ERGOTOXIN)

REVINA, A.A.; ARIEDZHANOV, Sh.A.; BAKH, N.A.; Primali uchastiye:
YAKOVLEV, Yu.B.; MITINA, N.I.

Electron paramagnetic resonance study of the formation of free
radicals in the irradiation of palmitic acid and its derivatives.
Dokl.AN SSSR 145 no.2:363-365 J1 '62. (MIRA 15:7)

1. Institut elektrokhimii AN SSSR. Predstavleno akademikom
A.N.Frumkinym.
(Palmitic acid) (Radiation) (Radicals (Chemistry))

S/020/62/145/002/014/018
B145/B101

AUTHORS: Revina, A. A., Aripdzhanov, Sh. A., and Bakh, N. A.

TITLE: Investigation into the formation of free radicals during the irradiation of palmitic acid and its derivatives with the epr method

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 145, no. 2, 1962, 363-365

TEXT: The authors studied the effect of the carboxyl group on primary processes in the radiolysis of carboxylic acids. Potassium salt and triglyceride were used besides free palmitic acid. Irradiation was conducted at -196°C (γ -radiation of Co^{60} , $\sim 5 \cdot 10^{16}$ ev/g.sec). The epr spectra were measured in vacuo and in the air. Solid α, α' -diphenyl- β -picryl hydrazyl was used as standard material. The spectra (width: 200 oersted) of samples irradiated with different doses showed differences in their relative band intensities. This proves the existence of different radicals and different rules in the kinetics of their accumulation. The 28-30 oersted doublet characteristic of carboxylic acids occurs in the

Card 1/2

Investigation into the formation ...

S/020/62/145/002/014/018
B145/B101

spectrum of palmitic acid. The following radiation-chemical yields in vacuo (first figure) and in the air (second figure) were calculated from the linear increase in radical concentration with increasing radiation dose: palmitic acid 20, 20; tripalmitin 12, 7; potassium palmitate 9, 7 radicals per ev. The radical concentration was studied up to a radiation dose of $\sim 3 \cdot 10^{21}$ ev/g (for palmitic acid the concentration was $\sim 3 \cdot 10^{20}$ radicals per g), but no tendency toward a steady value was observed. Comparison with the results of A. Breger (J. Phys. Coll. Chem., 52, 551 (1948)) verifies connection between the primary radicals obtained and the processes yielding the final radiolysis products. Peroxy-type radicals were not found. There are 3 figures. ✓

ASSOCIATION: Institut elektrokhemii Akademii nauk SSSR (Institute of Electrochemistry of the Academy of Sciences USSR)

PRESENTED: April 5, 1962, by A. N. Frankin, Academician

SUBMITTED: April 3, 1962

Card 2/2

ARIPOV, A., CAND GEOL-MINER SCI, ^{//} STRUCTURE OF THE COAL-
BEARING STRATUM AND THE ~~FORMATION~~ ^{OF FORMATION} CONDITIONS OF THE COAL
DEPOSITS OF THE NARYN ~~COAL~~ ^{//} REGION. TASHKENT, 1960. (ACAD
SCI UZ SSR, INST OF GEOL). (KL, 2-61, 201).

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00010201

11/11/86, H. H.

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00010201(

ARIPOV, A.A.; AKHMEDZHANOV, M.A.; BORISOV, O.M.; KURBANIYAZOV, K.;
RADZHABOV, F.Sh.

Oil and gas potentials of Paleozoic sediments in Ustyurt and
areas adjacent to it. Uzb. geol. zhur. 8 no.4:30-37 '64.
(MIRA 18:5)

1. Institut geologii i geofiziki imeni Abdullayeva AN UzSSR.

ARIPOV, A.A.; KURBANIAZOV, K.; AYKHODZHAYEV, S.S.

Conditions governing the formation of Jurassic sediments in the
Ustyurt and regions adjacent to it. Uzb.geol.zhur. 8 no.3:48-55
'64. (MIRA 18:12)

1. Institut geologii i geofiziki imeni Abdullayeva AN UzSSR.
Submitted Febr. 10, 1964.

ARIPOV, A.A.

Metamorphism of coals in Naryn District. Uzb. geol. zhur. no. 4:56-63
'59. (MIRA 13:1)

1. Institut geologii AN UzSSR.
(Naryn District--Coal geology)

ARIPOV, A.A.

Coal-bearing sediments in the Tegenek and Kara-Tut deposits in the
Naryn coal region. Uzb. geol. zhur. no.2:17-27 '60.

(MIRA 13:10)

1. Institut geologii AN UzSSR.

(Naryn region (Uzbekistan)--Coal geology)

ARIPOV, A. Ya., Cand of Med Sci -- (diss) "The Influence of Vitamin B₆
on Certain Functions of the Liver in Both the Normal and Persons Afflic-
ted With Liver Ailments," Stalinabad, 1959, 16 pp (Stalinabad State
Medical Institute im Abuali-Ibin-Sin) (KL, 6-60, 125)

ARIPOV, A.Ya., aspirant

Treatment of acute and chronic diseases of the liver with vitamin
B₆. Zdrav.Tadzh. 6 no.3:20-24 My-Je '59. (MIRA 12:11)

1. Kafedra fakul't.terapii (zavednyushchiy - zasluzhennyy
deyatel' nauki, prof.I.B.Likhtsiyer) Stalinabadskogo med-
instituta im. Abuali ibni Sino.
(LIVER--DISEASES) (PYRIDOXINE)

ARIPOV, A.Ya., kand.med.nauk

Influence of vitamin B₆ on liver function in its acute diseased phases.
Zdrav. Tadzh. 7 no.5:24-27 '60. (MIRA 13:12)
(PYRIDOXINE) (LIVER--DISEASES)

ARIPOV, A.Ya., dotsent; KRAVCHUK, A.Ya.

Case of lymphostasis in hemophilia. Zdrav. Tadzh. 8 no.5:28-30
S-0 '61. (MIRA 15:1)

1. Iz gospi'tal'noy terapevticheskoy kliniki (zaveduyushchiy - doktor
med.nauk, prof. Kh.Kh.Mansurov) i kliniki otorinolaringologicheskikh
bolezney (zaveduyushchiy - dotsent L.O.Kal'shteyn) Stalinabadskogo
medinstituta im. Abuali ibni Sino.
(HEMOPHILIA) (LYMPH)

ARIPOV, A. Ya., dotsent

Myocardial infarction in youth. Zdrav. Tadzh. 9 no.2:11-15
Mr-Ap '62. (MIRA 15:7)

1. Iz gospi'tal'noy terapevticheskoy kliniki (zav. - doktor med.
nauk, prof. Kh. Kh. Mansurov) Dushanbinskogo meditsinskogo insti-
tuta imeni Abuali ibni Sino.

(HEART—INFARCTION)

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4, 15-57-4-4302D
p 37 (USSR)

AUTHOR: Aripov, E.

TITLE: Electron-Microscopic Structural Investigation of the
Loess Soils (Elektronnomikroskopicheskoye issledovaniye
strukturnoobrazovaniya v lessakh)

ABSTRACT: Bibliographic entry on the author's dissertation for the
degree of Candidate of Chemical Sciences, presented to
the N.-i. fiz-khim. in-t (Scientific Institute of
Physics and Chemistry), Moscow, 1956.

ASSOCIATION: N.-i. fiz-khim. in-t (Scientific Institute of Physics
and Chemistry)

Card 1/1

Aripov, E.A.

KARGIN, V.A., akademik; HERESTNEVA, Z.Ya.; ARIPOV, E.A.

Effect of water on the formation and decomposition of clay mineral aggregates. Dokl. AN Uz. SSR no.8:21-25 '57. (MIRA 11:5)

1.Nauchno-issledovatel'skiy fiziko-khimicheskiy institut im. L.Ya. Karpova g. Moskva.

(Clay)

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APPROVE

APPROVED FOR RELEASE: Thursday, July 27, 2000

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ARIPOV, E.; BERESTNEVA, Z.Ya.; KARGIN, V.A.

Electron microscopic study of structure formation in loess. Part 2.
Effect of loess components on structure formation. Koll. zhur. 19
no.1:17-23 Ja-F '57. (MLBA 10:4)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova, Moskva.
(Loess) (Electron microscopy)

KHAMRAYEV, S.S.; ARIPOV, E.A.; AKHMEDOV, K.S.

Electron microscope study of soil aggregation under the effect
of polymeric preparations. Khim. i fiz.-khim. prirod. i sint.
polim. no.1:226-230 '62 (MIRA 18:1)

KHAMRAYEV, S.S.; ARIPOV, E.A.; AKHMEDOV, K.S.

Swelling of Sierozem (Grey desert soil) treated by artificial
soil aggregation agents. Uzb.khim.zhur. 6 no.6:11-17 '62.
(MIRA 16:2)

1. Institut khimii AN UzSSR.
(Soil stabilization)

ARIPOV, E.A.; KHAMRAYEV, S.S.; AKHMEDOV, K.S.

Effect of the preparation K-4 on structure formation in clays.
Pochvovedenie no.7:66-72 JI '63. (MIRA 16:8)

1. Khimicheskiy institut AN Uzbekskoy SSR.
(Soil conditioners) (Clay)

ARIPOV, E.A.; KHAMRAYEV, S.S.; BAKIYEVA, M.B.; ARTYKBAYEVA, Kh.Yu.;
AKHMEDOV, K.S.

Effect of the artificial soil aggregation agent K-4 on gray
desert soils having different degrees of dispersity. Uzb.
khim. zhur. 7 no.4:35-40 '63. (MIRA 16:10)

1. Institut khimii AN UzSSR.

PARPIYEV, N.A.; ARIPOV, E.A.

X-ray diffraction study of Az-Kamar white bentonite and its
cation-substituted forms. Uzb. khim. zhur. 7 no.5:34-37 '63.
(MIRA 17:2)

1. Institut khimii AN UzSSR.

KHAMRAYEV, S.S.; ARIPOV, E.A.; AKHMEDOV, K.S.

Aggregation in solutions of the hydrolysis products of polyacrylonitrile.
Koll.zhur. 25 no. 6:716-717 N-D '63. (MIRA 17:1)

1. Institut khimii AN UzSSR, laboratoriya kolloidnoy khimii, Tashkent.

ARIPOV, E.A., kand. khim. nauk, otv. red.; SOKOLOVA, A.A., red.

[Polymeric and humic preparations in agriculture] Polimer-
nye i guminovye preparaty v narodnom khoziaistve. Tashkent,
Izd-vo "Nauka" UzSSR, 1964. 175 p. (MIRA 17:5)

1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut khimii.

ARIPOV, E.A.; SARUKHANOV, M.A.; AKHMEDOV, K.S.

Effect of the pH of a medium on the interaction of an artificial
soil aggregation agent with montmorillonite clay. Uzb.khim.zhur.
8 no.2:62-65 '64. (MIRA 17:5)

1. NIITsF Goskhimneftekomiteta pri Gosplane SSSR.

KADYROV, N.K.; MIRSALIMOV, A.M.; ARIPOV, E.A.; AKHMEDOV, K.S.

Effect of pH of the medium and of temperature on cross-linking in solutions of water-soluble polymers. Uzb. khim. zhur. 8 no.6:55-60 '64.

(MIRA 18:4)

1. Institut khimii AN UzSSR.

KHAMRAYEV, S.S.; YAGUDAYEV, M.R.; ARIPOV, E.A.

Study of structuration in bentonite clays by infrared spectroscopy.
Koll. zhur. 27 no.1:121-124 Ja-F '65. (MIRA 18:3)

1. Institut khimii AN UzSSR, Tashkent.

GLEKEL', F.L.; ARIPOV, E.A.; SAIBOVA, M.T.; AKHMEDOV, K.S.

Effect of the polymeric preparation PAA-1 on the phase transitions
of tricalcium aluminate during hydration. Uzb. khim. zhur. 9
no.5:9-13 '65. (MIRA 18:12)

1. Institut khimii AN UzSSR. Submitted Jan. 19, 1965.

L 17342-63 EPF(c)/EPF(d)-2/EWP(q)/EWT(m)/BDS/T-2 AFFTC/ASD/AFWL/SSD Pr-4/
Pu-4 WH/AR

ACCESSION NR: AT3007255

S/2952/63/000/000/0068/0070

AUTHOR: Aripov, G.; Lobanov, Ye. M.; Shadiyev, N.

TITLE: Radiation damage to radio parts in a strong field of gamma radiation

SOURCE: Radiatsion. effekty* v tverd. telakh. Tashkent, Izd-vo AN UzSSR, 1963, 68-70

TOPIC TAGS: radiation effect, condenser gamma ray damage, capacitor radiation damage, radiation damage, radio part, gamma ray damage

ABSTRACT: The effect of powerful gamma-radiation doses on the electrical and mechanical properties of certain industrial types of capacitors has been investigated. Capacitors with mica, oil-impregnated paper, electrolyte, and ceramic dielectrics were studied. Several specimens of each type were tested and the results averaged to eliminate the effect of accidental errors. A cobalt irradiator with dose capacity of 650 rep/sec was used, with integral doses escalated from 100×10^6 to 1100×10^6 rep, in steps of 100×10^6 rep. After each dose the parameters were measured and compared with their Card 1/2

L 17342-63

ACCESSION NR: AT3007255

original values. Certain specimens were irradiated continuously up to 1100×10^6 rep. In the case of a KDK-2 type capacitor of 12.56 pf initial capacitance, the measurements revealed no change after 100×10^6 rep, a reduction to 12.44 pf after 200×10^6 rep, and a further reduction to 12.23 pf after 800×10^6 rep. The capacitance of a second specimen of the same type dropped from an initial 12.80 pf to 12.50, 12.55, and 12.78 pf, respectively, after the same doses. A third specimen of the same type behaved similarly to the first. Capacitors of the types BM and KBGM, having initial capacitances of 0.0121 μ f and 0.0247 μ f, changed their capacitances after an integral dose of 1100×10^6 rep to 0.0144 μ f and 0.0253 μ f, respectively. The PM capacitor (4635 pf) changed its capacitance under the same conditions to 4622 pf, while the KSO type (1217 pf) remained unchanged. Radiation damage was especially apparent in paper dielectrics, evidently owing to radiolysis of the impregnating oil. The BM and KBGM capacitors showed bulging of the container and seepage of oil and sealing compounds. It is concluded that gamma radiation will shorten the life of capacitors, but that even powerful doses will not lead to immediate failure. Orig. art. has: 2 figures and 2 tables.

Card 2/62

9.2100 (1001, 1159, 1385, 1137)

30147
S/608/61/000/000/002/007
B139/B102

AUTHORS: Gazyev, Sh. M., Aripov, G.

TITLE: Results of gamma irradiation of radiotechnical parts

SOURCE: Nekotoriye voprosy prikladnoy fiziki, 1961, 49 - 50

TEXT: The fact that the mechanical and electrical properties of materials and parts used in radio engineering can be modified by gamma irradiation has been utilized by the authors to study the behavior of radio sets in radiation fields and to develop radiation-resistant sets. At the Institut yadernoy fiziki AN UzSSR (Institute of Nuclear Physics AS Uzbekskaya SSSR) a series of resistors (types BC-0,25 (VS-0.25), BC-0,5 (VS-0.5), BC-1,0 (VS-1.0), BC-2 (VS-2), MMT-0,5 (MLT-0.5), MMT-1,0 (MLT-1.0), MMT-2 (MLT-2), УЛМ-0,12 (ULM-0.12)) were irradiated with gamma rays, one low-ohmic and one high-ohmic resistor of the same type in each experiment. The parameters were measured before and after gamma irradiation in a pit at a dose rate of $1.0 \cdot 10^6$ g, 650 rep/sec before and after gamma irradiation. The initial integral dose amounting to $100 \cdot 10^6$ rep was increased to $1100 \cdot 10^6$ rep in intervals of $100 \cdot 10^6$ rep. Measurements showed that the conductivity of all

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Results of gamma irradiation of ...

the low-ohmic resistors remained constant even at the maximum integral dose. The conductivity of high-ohmic resistors with a very thin conductive layer was, however, changed. As the radiation dose is increased, the resistance of the types VS-0.25, VS-0.5, and VS-1 increases by 25%, and that of the types MLT-0.5, MLT-1, and MLT-2 by 3%. There is 1 figure. 4

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LATFULIN, N.; ARIPOV, G.; FAYN, N.

Automatic hard facing of iron roll journals. Metallurg 7
no.7:32 JI '62. (MIRA 15:7)

1. Uzbekskiy metallurgicheskiy zavod.
(Rolls (Iron mills))
(Hard facing)

LOBANOV, Ye.M.; ARIPOV, G.

Determining chromium and some other elements by analyzing the gamma-ray spectra from the (n, γ) reaction. Izv. AN Uz. SSR. Ser. fiz.-mat. nauk 9 no.6:64-67 '65.

(MIRA 19:1)

1. Institut yadernoy fiziki AN UzSSR. Submitted April 25, 1964.

LATFULIN, N.L., inzh.; ARIPOV, G.I., inzh.; FAYN, N.I., inzh.

Automatic hard facing of cast-iron roll journals. Svar.
proizv. no.6:40 Je '62. (MIRA 15:6)

1. Uzbekskiy metallurgicheskiy zavod imeni Lenina.
(Rolls (Iron mills))
(Hard facing)

ACC NR: AP7011362

(N)

SOURCE CODE: UR/0393/66/000/004/0293/0294

AUTHOR: Aripov, Kh. N.; Shakirov, T. T.; Yuldashev, P. Kh.

ORG: Institute of Chemistry of Vegetable Matter, Academy of Sciences USSR
(Institut khimii rastitel'nykh reshchestv AN UzSSR)

TITLE: Isolation of vincanine

SOURCE: Khimiya prirodnikh soyedineniy, no. 4, 1966, 293-294

TOPIC TAGS: plant chemistry, acetic acid

SUB CODE: 07,06

ABSTRACT: Vincanine was extracted by a countercurrent method from the roots of *Vinca erecta* Rgl. et Schmalz with a 1 percent solution of acetic acid. The extract was desorbed with 1.5 percent ammoniacal solution in 85 percent ethyl alcohol. The condensed alcoholic solution was acidified with concentrated hydrochloric acid and evaporated to remove alcohol, while the acid solution was alkalized with excess 30 percent caustic soda, and extracted three times with chloroform. The latter was distilled under vacuum to dryness and, after treatment with acetone, vincanine was isolated and converted into vincanine hydrochloride. [JPRS: 40,351]

Card 1 of 1

Aripov, M. A.

USSR/Pharmacology and Toxicology - Toxicology.

V

Abs Jour : Ref Zhur - Biol., No 2, 1959, 933⁴

Author : Aripov, M.A.

Inst : -

Title : Changes of Secretion and Digestive Capacity of Gastric Juice under the Influence of Copper Ammoniate

Orig Pub : Med. zh. Uzbekistana, 1957, No 10, 50-53

Abstract : In experiments on eight dogs which were operated according to the Brestkin-Savich method, the effect of copper ammoniate (CA) upon the secretory function of the stomach and digestive capacity of gastric juice (GJ) were studied. Meat broth served as a stimulant (1:3) which was poured in an amount of 500 ml into the stomach through a catheter. 4% aqueous solution of CA was introduced intramuscularly in a dose of 0.03 g/kg. Upon poisoning of dogs with CA, a considerable decrease of the production of GJ was noted. Before poisoning and

Card 1/2

ARIPOV, M.A.

Effect of some saponins on the secretory and enzyme function of
the gastric glands in dogs. Med.zhur.Uzb. no.3:32-34 Mr '62.
(MIRA 15:12)

1. Iz kafedry farmakologii (zav. - prof. N.N.Kompantsev)
Tashkentskogo gosudarstvennogo meditsinskogo instituta.
(SAPONINS--PHYSIOLOGICAL EFFECT) (STOMACH--SECRECTIONS)

A.
ARIPOV, M., Cand Med Sci (diss) -- "The toxicology of copper (The effect of copper on the secretory and enzymatic function of the digestive glands)". Tashkent, 1959. 30 pp (Tashkent State Med Inst), 400 copies (KL, No 14, 1960, 136)

ACC NR: AR6004348

SOURCE CODE: UR/0274/65/000/009/V026/V026

AUTHOR: Aripov, M. N.; Kogan, M. Ye.

TITLE: A statistical study of disruptions in FM tonal telegraph channels

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 9V203

REF SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, vyp. 23, 1964, 159-167

TOPIC TAGS: telegraph signal, telegraph system, carrier frequency telegraph, communication channel

TRANSLATION: Since disruptions in communications are relatively infrequent, it is extremely difficult to determine their cause. A study of the frequency characteristics of the disruptions is necessary in order to choose effective methods of combatting them. Six different approaches were used to study channels of the TT 12/16 system from September to October 1961. The study showed that the probability distribution of the various disruptions is Poisson over the given time interval. Preventive measures to control disruptions could be developed from the mathematical model derived.

SUB CODE: 17

UDC: 621.394.342

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NAUMOV, P.A.; SMIRNOV, K.A.; ARIFOV, M.N.

Ascelerated study of the operational quality of telegraph communications.
Elektroxviaz' 18 no.7:69-73 JI '64. (MIRA 17:10)

ARPOV, M.N.; DIMURIN, V.K.

Statistical evaluation of the authenticity of the transmission of communications using a teletype apparatus with apparatus speed discrepancy. Trudy ucheb. inst. svyazi. no.16:97-106 '63.

(MIRA 17:10)

1. Moskovskiy elektrotekhnicheskii institut svyazi.

L 46228-66

ACC NR: AR6004346

SOURCE CODE: UR/0274/65/000/009/V025/V025

AUTHOR: Aripov, M. N.

REF SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, vyp. 22, 1964, Y69-180

TITLE: Statistical characteristics of grouped distorted symbols in telegraphic communication

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 9V190

TOPIC TAGS: telegraph system, teletype system, signal distortion

TRANSLATION: The results of statistical tests of telegraphic communication with teletype and synchronous terminal equipment operating on overhead and underground lines are considered. The tests were conducted to determine the suitability of these communication channels for transmitting data. The results of the investigation of macro- and microstructures of the errors (i. e., the statistical parameters which characterize the error statistics in channels in general as well as within the bounds of code combinations) are given. The results are shown in tables and graphs. As a result of the measurements it was established that grouped distorted symbols are encountered twice as often as single distorted symbols. Grouped distorted symbols appeared more often in overhead than in underground lines. 5 figures, 5 references. S. Z.

SUB CODE: 17/

SUBM DATE: none

UDC: 621.394.001.1

Card 1/1

mjs

ARIPOV, N.

Psychic disorders following insults and softening of the brain
in advanced age. Med.zhur.Uzb. no.8:66-69 Ag '62. (MIRA 16:4)

1. Iz kafedry psikiatrii (zav. - prof. F.F.Detengof)
Tashkentskogo gosudarstvennogo meditsinskogo instituta.
(BRAIN--SOFTENING) (PSYCHOSES) (AGED--DISEASES)

AZIMOV, S.A.; ARIPOV, R.; GULYAMOV, U.G.; RIZAYEV, Kh.A.

Production of slow π^+ -mesons in the interaction between 9-Bev.
protons and photoemulsion nuclei. Izv. AN Uz. SSR. Ser. fiz.-mat.
nauk 9 no.4:59-62 '65. (MIRA 18:9)

1. Institut yadernoy fiziki AN UzSSR.

I 39667-56 F-11-17 00-2

ACC NR: AP6018115 SOURCE CODE: UR/0166/65/000/004/0059/0062

AUTHOR: Azimov, S. A.; Aripov, R.; Gulyamov, U. G.; Rizayev, Kh. A.

ORG: Nuclear Physics Institute, AN UzSSR (Institut yadernoy fiziki AN UzSSR)

TITLE: Formation of slow pi sup + mesons on interaction between protons of 9-bev energy with photoemulsion nuclei 19

SOURCE: AN UzSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 4, 1965, 59-62

TOPIC TAGS: pi meson, proton interaction, angular distribution, nuclear emulsion, particle accelerator

ABSTRACT: Previous analyses of the angular and energy distributions of the slow protons emitted as a result of the interaction between 24-beV protons and heavy emulsion nuclei has led to important conclusions concerning the behavior of nuclei in the presence of very high excitation nuclei. An investigation has been made of low-energy and so-called "sub-barrier" pions which will ultimately provide information on the production of new resonance particles. However, the available statistical material is much too limited to allow any conclusions concerning the mechanism of production of such mesons. Hence, the authors investigated certain aspects of the process of the formation of slow mesons, including sub-

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ACC NR: AP6018115

barrier mesons, by exposing an emulsion plate to a beam of protons with 9-beV energy in a synchrophasotron and tracking the paths of the identified π^+ -mesons. It is shown that the formation of slow π^+ -mesons cannot be explained by the standard mechanism of the evaporation of a strongly excited nucleus, a mechanism normally used to account for the emission of slow protons. This study has resulted in the detection of 282 primary stars containing π^+ -mesons with energies of up to 30 meV. The search for and analysis of slow π^- -mesons are continuing. Orig. art. has: 3 figures. [JPRS]

SUB CODE: 20 / SUBM DATE: 09Apr64 / ORIG REF: 001 / OTH REF: 006

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ARIPOV, R.A.; GRISHIN, V.G.; SIL'VESTROV, L.V.; STREL'TSOV, V.N.

[Scattering of 7-8 Bev. π^- -mesons on nucleons involving a large momentum transfer] Rasseianie π^- -mezonov s energiei 7-8 Bev na nuklonakh s bol'shoi peredachei impul'sa. Dubna, Ob"edinennyi in-t iadernykh issledovani, 1961. 5 p. (MIRA 14:10)

1. Fiziko-tekhnicheskii institut AN Uzbekskoy SSR (for Aripov). (Mesons--Scattering)

ARIPOV, R.A.; GRISHIN, V.G.; SIL'VESTROV, L.V.; STREL'TSOV, V.N.;
SARANTSEVA, V.R.; tekhn. red.

[Charge-exchange in 7 to 8 Bev. π^- -mesons on protons]
 π^- -mezonov s energiei 7-8 Bev na protonakh. Dubna, Ob"edi-
nennyi in-t iadernykh issl., 1962. 7 p. (MIRA 15:4)

1. Fiziko-tekhnicheskly institut Akademii nauk Uzbekskoy SSR
(for Aripov).
(Nuclear reactions) (Mesons) (Protons)

ARIPOV, R. A., KOPILOVA, D. K. LYUBINOV, V.B., NIKITIN, A. V., PODGORETSKIY, M.I.,
PORTNOVA, S. I., RISAIEV, H., STRELTSOV, V. N., TRKA, S., and SHKLOVSKAYA, A. I.
RISAYEV, G.

"Inelastic Interactions of π^- Mesons with Nucleons at 7 Gev"

report presented at the Intl. Conference on High Energy Physics, Geneva,
4-11 July 1962

Joint Institute for Nuclear Research,
Laboratory of High Energy, Dubna, 1962